

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	17351	(alcohol or methanol) and fuel cell	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 17:24
S2	3447	S1 and (liquid or aqueous or alkaline) near4 electroly\$4	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 17:25
S3	2241	S2 and membrane with electroly \$4	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 17:25
S4	1673	S2 and membrane with electroly \$4 and "429".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 17:26
S5	1541	S2 and membrane with electroly \$4 and 429/12-46.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 17:26
S6	350	S5 and (anion)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 17:27
S7	39029	(liquid or aqueous) near3 electrolyt\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 19:07
S8	3512	((liquid or aqueous) near3 electrolyt\$3) and ((solid or polymer or matrix) near4 membrane)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 19:08
S9	1830	((liquid or aqueous) near3 electrolyt\$3) and ((solid or polymer or matrix) near4 membrane) and fuel cell	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 19:09
S10	773	((liquid or aqueous) near3 electrolyt\$3) and ((solid or polymer or matrix) near4 membrane) and (methanol or alcohol or propanol or ethanol) with fuel cell	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 19:09
S11	774	((liquid or aqueous) near3 electrolyt\$3) and ((solid or polymer or matrix) near4 membrane) and (((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 19:10
S12	774	((liquid or aqueous) near3 electrolyt\$3) and ((solid or polymer or matrix) near4 membrane) and (((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aaaf)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 19:10
S13	1340	((liquid or aqueous) near3 electrolyt\$3) and ((solid or polymer or matrix) near4 membrane) and (((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aaaf or 429/12-46.ccls.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 19:10

S14	647	((liquid or aqueous) near3 electrolyt\$3) and ((solid or polymer or matrix) near4 membrane) and (((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aaFc) and 429/12-46.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 19:11
S15	446	((liquid or aqueous) near3 electrolyt\$3) same2 ((solid or polymer or matrix) near4 membrane) and (((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aaFc) and 429/12-46.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 19:12
S16	102	((liquid or aqueous) near3 electrolyt\$3) same2 ((solid or polymer or matrix) near4 membrane) and (((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aaFc) and 429/12-46.ccls. and (alkaline near electrolyt\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 19:56
S17	194	((liquid or aqueous) near3 electrolyt\$3) same2 ((solid or polymer or matrix) near4 membrane) and (((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aaFc) and 429/12-46.ccls. and (alkaline near electrolyt\$3 or potassium hydroxide or koh)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 19:56
S18	766	((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aaFc) and 429/12-46.ccls. and (alkaline near electrolyt\$3 or potassium hydroxide or koh)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 19:56
S19	721	((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aaFc) and 429/12-46.ccls. and (alkaline near electrolyt\$3 or potassium hydroxide or koh) and (polymer or membrane or asbestos or matrix)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 19:57
S20	478	((methanol or alcohol or propanol or ethanol) with fuel cell) or dmfc or aaFc) and 429/12-46.ccls. and (alkaline near electrolyt\$3 or potassium hydroxide or koh) and (polymer or membrane or asbestos or matrix) and ((liquid or aqueous or solution) near3 electrolyt\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 19:58
S21	1	("2003/0003348").URPN.	USPAT	ADJ	ON	2009/02/12 20:11

S22	9	"5656389"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/12 20:51
S23	8	("5656389").URPN.	USPAT	ADJ	ON	2009/02/12 20:53
S24	8	("3297490"   "3647551"   "4031292"   "4185145"   "5636437"   "5851504").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 14:52
S25	9140	alkaline fuel cell or "afc"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 15:31
S26	2067	S25 and membrane	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 15:32
S27	2890	S25 and (membrane or asbestos or matrix)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 15:32
S28	494	S27 and (aqueous or liquid) with electrolyt\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 15:32
S29	843376	S28 and methanol or alcohol	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 15:35
S30	369	S28 and (methanol or alcohol)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 15:36
S31	3820	(dmfc or direct methanol or direct alcohol)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 16:17
S32	522	S31 and S25	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 16:17
S33	508	S32 and (membrane or asbestos or matrix)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 16:17
S34	206	S33 and (aqueous or liquid) with electrolyt\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 16:18
S35	331	S31 and alkaline near4 electroly \$4	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 16:24
S36	324	S35 and (membrane or asbestos or matrix)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 16:25
S37	115	S35 and (asbestos or matrix)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 16:59
S38	773	S31 and (asbestos or matrix)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 17:01
S39	6	("2003/0170524").URPN.	USPAT	ADJ	ON	2009/02/13 17:08
S40	0	10/152068	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 17:20
S41	1	"10152068"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 17:21
S42	6	("2003/0170524").URPN.	USPAT	ADJ	ON	2009/02/13 17:21
S43	2	"3201283"	USPAT	ADJ	ON	2009/02/13 17:24
S44	1	("3201283").URPN.	USPAT	ADJ	ON	2009/02/13 17:24
S45	3	("4296184").URPN.	USPAT	ADJ	ON	2009/02/13 17:24

S46	6	("3201283"   "4107395"   "5096663"   "5298343"   "5874182"   "5958616").PN.	USPAT	ADJ	ON	2009/02/13 17:27
S47	102	(kordesch near3 karl).in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 17:28
S48	36	(kordesch near3 karl).in. and fuel cell	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 17:28
S49	1294	(dmfc or direct methanol or direct alcohol) and (alkaline or potassium hydroxide)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 17:36
S50	1294	(dmfc or direct methanol or direct alcohol) and (alkaline or potassium hydroxide) and (methanol or alcohol or ethanol or propanol)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 17:39
S51	1262	(dmfc or direct methanol or direct alcohol) and (alkaline or potassium hydroxide) and (methanol or alcohol or ethanol or propanol) same fuel	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 17:39
S52	716	(dmfc or direct methanol or direct alcohol) and ((alkaline or potassium hydroxide) same electroly\$4)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 17:40
S53	4249	fuel cell and ((alkaline or potassium hydroxide) same electroly\$4)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 18:09
S54	2456	S53 and (alcohol or methanol or propanol or ethanol)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 18:10
S55	1151	S53 and (alcohol or methanol or propanol or ethanol) and (matrix or asbestos or cloth)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 18:10
S56	419	S53 and ((alcohol or methanol or propanol or ethanol) same fuel) and ((matrix or asbestos or cloth) same electroly\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 18:11
S57	10	"4801359"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 21:56
S58	282	asbestos same membrane and (dmfc or direct methanol or fuel cell)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 21:59
S59	10	"4975172"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 22:26
S60	21	"4315954"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 22:56
S61	0	"4615954""4315954"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 22:56
S62	56	"4615954"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 22:56
S63	2	"6814777"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 23:04
S64	18	"3673116"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 23:05

S65	2	"6814777"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/13 23:21
S66	608	raney nickel same ((platinum near2 ruthenium) or (ru near2 pt))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 00:11
S67	17	raney nickel same ((platinum near2 ruthenium) or (ru near2 pt)) and (direct methanol or dmfc or fuel cell)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 00:12
S68	18	"3673116"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 00:15
S69	2093	raney nickel and ((pt near2 ru) or (platinum with ruthenium))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 00:17
S70	78	raney nickel and ((pt near2 ru) or (platinum with ruthenium)) and fuel cell	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 00:17
S71	220	Nafion same (pbi or polybenzimidazole)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 01:17
S72	215	Nafion same (pbi or polybenzimidazole) and fuel cell	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 01:18
S73	108	Nafion same (pbi or polybenzimidazole) and fuel cell and (direct methanol or dmfc)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 01:18
S74	16	"3553022"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 01:46
S75	716	(dmfc or direct methanol or direct alcohol) and ((alkaline or potassium hydroxide) same electroly\$4)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 01:46
S76	552	(dmfc or direct methanol or direct alcohol) and ((alkaline or potassium hydroxide) same electroly\$4) and (anode or electrode) same (carbon or graphite or polytetrafluoroethylene or ptfe)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 01:47
S77	2478	(direct methanol or dmfc) and (layer or two layer\$3 or bilayer \$3) same (anode or electrode)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 16:26
S78	114	(direct methanol or dmfc) and (two layer\$3 or bilayer\$3) same (anode or electrode)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 16:27
S79	18	(direct methanol or dmfc) and (two layer\$3 or bilayer\$3) same (anode or electrode) and (pbi or polybenzimidazole)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 16:31
S80	472	(direct methanol or dmfc) and (pbi or polybenzimidazole)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 16:33
S81	53	(direct methanol or dmfc) and (pbi or polybenzimidazole)	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/14 17:40

S82	349	(direct methanol fuel cell or dmfc) and (anode same (ptfe or fluoroplastic or polytetrafluoroethylene or polytetrafluoro ethylene))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 18:40
S83	449	(direct methanol fuel cell or dmfc) and (anode same (ptfe or fluoroplastic or polytetrafluoroethylene or polytetrafluoro ethylene or teflon or teflon))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 18:41
S84	1	"10152068"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/14 19:07
S85	1	"0001376"	DERWENT	ADJ	ON	2009/02/14 19:12
S86	3	(porous nickel same (fill\$3 or impregnat\$4)) and (direct methanol or dmfc or air near2 alcohol)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/17 00:44
S87	1	(porous nickel and (fill\$3 or impregnat\$4)) and (direct methanol or dmfc or air near2 alcohol)	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/17 00:45
S88	299	(porous nickel and (fill\$3 or impregnat\$4))	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/17 00:49
S89	23	(porous nickel and (fill\$3 or impregnat\$4) and fuel cell)	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/17 00:49
S90	0	((spongey or spongy) nickel and (fill\$3 or impregnat\$4) and fuel cell)	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/17 00:54
S91	1	((spongey or spongy) near2 nickel and (fill\$3 or impregnat\$4) and fuel cell)	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/17 00:54
S92	7	((foam) near4 nickel and (fill\$3 or impregnat\$4) and fuel cell)	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/17 00:54
S93	3	((foam) near4 nickel same (fill\$3 or impregnat\$4)) and (direct methanol or dmfc or air near3 alcohol or fuel cell)	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/17 00:57
S94	55	((foam) near4 nickel same (fill\$3 or impregnat\$4)) and (direct methanol or dmfc or air near3 alcohol or fuel cell)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/17 00:57
S95	288	((foam or porous or spongey or spongy) near4 nickel same (fill\$3 or impregnat\$4)) and (direct methanol or dmfc or air near3 alcohol or fuel cell)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/17 00:58
S96	496	(direct methanol or dmfc or air near3 alcohol) and (pbi or polybenzimidazole)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/17 01:45

S97	133	(direct methanol or dmfc or air near3 alcohol) and (pbi or polybenzimidazole) same (anode or electrode)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/17 01:46
S98	13	"6485851"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/17 02:01
S99	770	(direct methanol or dmfc or (alcohol near3 air)) and ((anode or electrode) same (ptfe or polytetrafluoro\$1ethylene or fluoroplastic))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/17 02:34
S100	293	(direct methanol or dmfc or (alcohol near3 air)) and ((anode or electrode) same (ptfe or polytetrafluoro\$1ethylene or fluoroplastic)) and (potassium hydroxide or koh or alkaline)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/17 02:34
S101	212	(direct methanol or dmfc or (alcohol near3 air)) and ((anode or electrode) same (ptfe or polytetrafluoro\$1ethylene or fluoroplastic) same (wt or weight or percent or "%"))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/17 02:49

2/17/2009 4:33:44 AM

C:\Documents and Settings\mlaios\My Documents\EAST\Workspaces\10530778f.wsp